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NEW SOVIET MACHINE TOOLS

DEVELOP NEW GRADUATING MACHINE -- Moscow, Vechernyaya Moskva, 20 Mar 52

Ye. Zhdanov, a fitter at the Moscow Kalibr Plant, has developed a die
 graduating machine for making graduations and various markings.

Existing graduating and engraving machines are complex throughout. Only
 highly-skilled workers can operate them. Zhdanov's machine, on the other hand,
 is simple and highly productive, and processes parts with high precision.

Graduations are made on a number of micrometer parts 80 times faster than
 by the old method.

The new machine will find wide application in the scales industry and at
 railroad car and repair plants of the Ministry of Rail Transportation.

NEW PLANT BROADENS RANGE OF OUTPUT -- Vil'nyus, Sovetskaya Litva, 20 Apr 52

In the second half of 1948, the Vil'nyus Zhal'gris Machine-Tool Building
 Plant put out its first product, bench drilling machines, and in 1949 it began
 to produce shapers. In 1952, it must perfect and produce a universal high-
 precision and high-duty milling machine.

MAKES MACHINE TOOLS FOR CONSTRUCTION PROJECTS -- Minsk, Sovetskaya Belorussiya, 17 Feb 52

The Vitebsk Komintern Machine-Tool Building Plant recently manufactured and
 shipped radial drilling and vertical drilling machines to the Kuybyshev hydro-
 electric construction and Kakhovka GES projects ahead of schedule.

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The plant is now manufacturing a large group of machine tools for other construction projects, including the Volga-Don Canal, Tsimlyanskaya Hydroelectric Center, and irrigation projects.

BUILD, SHIP 40 HIGH-DUTY LATHES -- Moscow, Moskovskaya Pravda, 22 Apr 52

The Moscow Krasnyy Proletariy Plant imeni Yefremov recently manufactured and shipped 40 high-duty lathes to the Kuybyshev hydroelectric construction project and to enterprises in Leningrad, Khar'kov, Molotov, and other cities.

TO RELEASE NEW HIGH-SPEED LATHE -- Tbilisi, Zarya Vostoka, 22 Feb 52

The Tbilisi Foundry and Machinery Plant is the newest machine-tool building enterprise in the Georgian SSR. It produces T4-A screw-cutting machines and file-sharpening machines which are used extensively at metalworking plants in the Ukrainian SSR, Azerbaydzhan SSR and other republics.

In 1951, the plant received orders for the manufacture of machine tools for construction projects. Twenty-five machine tools were sent to the Volga-Don, Stalingrad, and Kuybyshev GES projects ahead of schedule. Orders for 1952 are being completed successfully also.

The first high-speed lathes of a new type, TP-1M, will leave the assembly shop in March. They are more durable than previous types, and are intended for high-speed machining of metal.

SHIP NEW SCREW-CUTTING LATHES TO HIGHER TECHNICAL SCHOOLS -- Moscow, Izvestiya, 3 Feb 52

The Yerevan Plant imeni Dzerzhinskiy has begun production of a high-precision screw-cutting lathe. The first group of the new-type machine tools has been shipped to different cities in the country for equipping machine-shop laboratories of higher technical schools.

MASTER PRODUCTION OF NEW AUTOMATICS -- Leningradskaya Pravda, 23 Mar 52

The Leningrad Plant imeni Il'ich has mastered the production of a number of new machine tools.

Complex equipment for one section of an automatic transfer machine line in a ball bearing plant has been manufactured. A unique optical profile-grinding machine has also been produced. Its controls are simple, and it is highly productive. Complex profiles of templates and cutters are ground with high accuracy.

Plant personnel, cooperating with workers of the All-Union Scientific Research Institute of Abrasives and Grinding on solving complex technical problems, are carrying on experiments on high-speed grinding, and are establishing the most effective operating conditions of machine tools. They have manufactured an automatic, for example, on which parts are polished by special flexible polishing wheels. This mechanizes hand operations and increases labor productivity.

TEST NEW GRINDING MACHINE -- Minsk, Sovetskaya Belorussiya, 10 Feb 52

A new-model ZA-71 [possibly a misprint for 3A-71, since the first digit of surface grinding machine model numbers is usually 3] surface grinding machine

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has been tested at the Vitebsk Plant imeni Kirov. In contradistinction to earlier models, the new machine is light in weight and is technically improved. Almost all mechanisms are hydraulically operated. A special dust pump has been installed on the machine tool for drawing off metal dust which is formed when parts are ground without a coolant. The plant will soon begin series production of the new machine tools.

PRODUCE GRINDING MACHINES FOR AGRICULTURAL ENTERPRISES -- Yerevan, Kommunist,
17 Feb 52

The Moscow Grinding Machine Plant has produced a group of new grinding machines for enterprises of the Ministry of Agriculture USSR.

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